

GEO Call for Proposals: Earth Observations for Decision Support Concept Proposal Summary

As of:
11-Nov-09

The following are the titles of the Concept Proposals that GEO received in response to the Call for Proposals "Earth Observations for Decision Support." We provide this summary information to help GEO Communities of Practice, Member Countries, Participating Organizations, Observers, etc. get a sense of the projects. In addition, people and organizations interested in sponsoring a project(s) or providing an Advisor(s) may identify project(s) of interest from this list. You can send an email to CFPReview@geosec.org expressing your interest to learn more about a particular project - please include the Proposal Number and your specific interest (Advisor, Possible Sponsorship, etc).

The GEO CFP Management Team wants to spread support across the projects, so please specify several projects of possible interest. The CFP Management Team will provide information to contact the project team. This list does not include 3 proposals deemed non-compliant with the CFP objectives.

Proposal Number	Project Title	Target Region/Country	Primary SBA for this CFP Agriculture, Energy, Health, Water	Other GEO SBAs
1	Spatial Modeling for Decision Support in Selecting the Most Suitable Areas of Inland Valley Wetland Cultivation and Preservation in West and Central Africa using Advanced Remote Sensing to Support Africa's Green and Blue Revolution	West and Central Africa	Agriculture	Water, Ecosystems
3	Global Irrigated and Rainfed Cropland Areas and their Water use Assessments using GLS2005 in Fusion with MODIS Time-series for Sustainable Food Security under Projected Societal and Climate Change Scenarios	Global	Agriculture	Water
23	Impact of climate change on agriculture and biodiversity in Nepal Himalaya	Nepal	Agriculture	Agriculture
27	Evaluation of G-DEM for estimation of landscape-dependent soil properties – Case study on a representative watershed in Romania	Romania	Agriculture	Agriculture
29	Corn Monitoring and Crop Yield Prediction Using Optical and Microwave Remote Sensing in Central Mexico	Mexico	Agriculture	Agriculture
31	Agro-Ecological and Agro-Climatological Zonation for Malaysia: A Geo-Information Technology Approach	Malaysia	Agriculture	Agriculture
42	Development of a Decision Support System for Diagnosis and Prediction of stress in agricultural TEA plants	Global	Agriculture	Agriculture
43	Land Degradation Management using GIS and Earth observation techniques: An integrated approach for sustainable agriculture	India	Agriculture	Agriculture
51	Quantifying the Environmental Damages from Illegal Coca Crops Across Colombia's Megadiverse Landscapes	Colombia	Agriculture	Agriculture
60	Development of methodologies and Earth Observation tools to implement a crop monitoring system for decision making in the agricultural sector in Colombia	Colombia	Agriculture	Agriculture
62	Protocols for the Monitoring of Forest Resources of Colombian Pacific Region through the Use of Earth Observation Technologies	Colombia	Agriculture	Agriculture
81	SURAMA Toolbox: A Web-Based Information System for Sustainable Rangeland Management in Namibia	Namibia	Agriculture	Agriculture
86	Rainwater harvesting for domestic and supplemental irrigation to upgrade rainfed farming towards food security and sustainable livelihood in the Indian desert	India	Agriculture	Water
87	Improving Capacity for Weather Forecasting, Emergency Management, and Environmental Monitoring in Central America and the Caribbean Using GEONETCast Americas	Central America and the Caribbean	Agriculture	Energy, Health, Water
91	Near-real time fire alerts for forest monitoring: Transitioning from desktop to mobile services	Global	Agriculture	Agriculture
92	Capacity Building for Agriculture Monitoring and Yield Estimation using Satellite & Ancillary Field Observations in the Greater Horn of Africa	Horn of Africa	Agriculture	Agriculture
97	Improving the Global Agriculture Monitoring Using GEOSS Data and Model Products in support of the decision making on food security in developing countries	Global	Agriculture	Agriculture
118	Building Capacity for using Earth Observations to improve decision making on Management and Sustainable Use of Forests in Caribbean islands	Caribbean	Agriculture	Agriculture
124	Information System for a Safe Agricultural Production Management and Products Traceability (DIAS-Agriculture)	Global	Agriculture	Agriculture

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127	SAFE (Space Applications For Environment) for Forest, Agriculture and Water Resource Management Themes	Vietnam & Cambodia	Agriculture	Water
133	Monitoring of the land coverage of the Usumacinta Region in Mexico	Mexico	Agriculture	Agriculture
14	Assessment of Deforestation, its impact on Rural Livelihoods and Carbon Emissions in North Central Geopolitical Zone of Nigeria: A Pilot Study of Niger State.	Nigeria	Agriculture (Forest)	Agriculture
18	Strengthening of Forest Monitoring capacity in developing Countries	India	Agriculture (Forest)	Agriculture
26	Forest Cover Monitoring in Mountainous Catchments for Decision Support in Forestry Planning: The case of the Southern Andes of Ecuador	Ecuador	Agriculture (Forest)	Agriculture
59	Applications of Earth Observations for Native Forests in Patagonia	Argentina	Agriculture (Forest)	Agriculture
63	Development and Implementation of an Open System for Consultation of Interpretation Patterns in Agricultural and Forest Cover as Support Tool for Monitoring of Production Systems in the Country	Colombia	Agriculture (Forest)	Agriculture
75	Co-benefits of Reducing Emissions from Land Use Sectors and Conserving Biodiversity in Tropical Landscape Mosaics	Indonesia	Agriculture (Forest)	Agriculture
78	Capacity Building for Forest Monitoring in Central Africa	Congo Basin	Agriculture (Forest)	Agriculture
88	Deployment of a near real time pantropical deforestation monitoring system based on machine learning algorithms	Global	Agriculture (Forest)	Agriculture
98	Climate change in the Calakmul municipality on the state of Campeche, Mexico	Mexico	Agriculture (Forest)	Water
104	Deforestation quantification and biomass estimation in the Peruvian Amazonia	Peru	Agriculture (Forest)	Agriculture
113	A sub-Sahara Africa Early Warning System for Wildland Fire Threat and Air Quality Hazard	Global	Agriculture (Forest)	Agriculture
128	ALOS Utilization Verificaiton Project with Indonesian LAPAN (For Agriculture, Forest, Water, Mapping, Fishery and Other Environmental Pilots)	Indonesia	Agriculture (Forest)	Water
129	Utilization of ALOS satellite data to support Mapping and Monitoring Emission from Deforestation and Degradation in Indonesia	Indonesia	Agriculture (Forest)	Agriculture
132	Connecting forests to maintain ecological and economic values: a proposal to implement a corridor in the transition to the Chaco forest in Northwestern Argentina	Argentina	Agriculture (Forest)	Agriculture
2	Land Surface Property Retrievals from Satellite Hyperspectral Measurements in Support of Earth Observations and Climate Change Monitoring	Global	Energy	Multiple SBAs
20	Application of GEOSS to the Management of Renewable Energy and Underground Water Resources in Nigeria	Nigeria	Energy	Water
24	Evaluating potential biofuel production in wetlands from exported water hyacinth	Brazil	Energy	Energy
134	Using EO to Enhance the Tanzanian Electricity Utility's Decision-Making Processes with regard to Potential Displacement around Hydro Dams and Reservoirs and Electricity Output from Existing Hydro Installations	Tanzania	Energy	Water
17	Earth Observation for Aerosol Mapping and Monitoring in the Hindu-Kush Himalayan (HKH) Region: Assessment of Health and Agriculture Impact	Himalayas	Health	Agriculture
28	MAP-EO (Modelling air pollution exposures using Earth Observation data)	UK	Health	Health,
35	Effects of emissions and transport of aerosol on Earth System: social and environmental dimensions of global changes	Global	Health	Health
37	Operational Malaria Early Warning System based on Earth Observation (EO)	Swaziland/South Africa	Health	Health
38	Decision support system on air pollution monitoring Yangtze River Delta	China	Health	Health
39	Modeling population figures based on remote-sensing data for regional decision-making in the sector of Human health and Water Supply and Sanitation	Tanzania	Health	Water
40	Building Earth Observation Data Visualization Capacity and Training for Decision Support in Mexico	Mexico	Health	Water, Agriculture
41	Scaling Up Malaria Early Warning System in Africa and Latin America	Africa/Latin America	Health	Health
65	"iEarth" a Tool For the Next Pandemic	Global	Health	Health

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74	AIRNOW – International (near-real-time information on air quality conditions)	Global	Health	Health
85	Development, Implementation and Evaluation of an Advanced Data-Assimilating Air Quality Prediction System at CATHALAC with extended Technology Transfer	MesoAmerica	Health	Energy
89	IDEA-International (aerosol forecasting, visualization, and data synthesis tool for use by the international air quality forecasting community)	Global	Health	Health
96	URBAN AEROBIOLOGICAL STUDIES AND THEIR APPLICATION TO HUMAN HEALTH	Argentina	Health	Health
99	Measuring and Monitoring Health Effects due to Intensive Agriculture - Construct and Utilize a Temporal Data Infrastructure (TDI) of Earth Observations for Addressing the Environmental Impacts on Local and Regional Health.	Global	Health	Agriculture
100	Applying GEOSS Tools for Achieve Human Health Resilience in Amazonas and Andean Rivers Basin in Bolivia - South America	Andean Rivers Basin, Bolivia	Health	Health
101	A Regional and Global Health Early Warning System - Addressing the Impacts on Health of Short and Long-term Environmental Factors	Global	Health	Health
102	Air Quality Information Systems and GEOSS: Applications to India	India/Global	Health	Health
103	Mining Contamination determination using high spectral resolution in central Peru	Peru	Health	Health
105	Environmental factors influence on the malaria evolution in northern Peru	Peru	Health	Health
106	Use of Earth Observations to Build Capacity for Air Quality Decision Support in the Middle East and Eastern Europe	Middle East/Eastern Europe	Health	Health
108	Supporting Air Quality Decisions in Central America: Establishing an Operational Air Quality Communication System	Panama and Honduras	Health	Health
131	Urban air pollution exposure assessment and capacity building	Thailand	Health	Health
136	Advancements in Earth Observations Utilization in the VIEWS-TSS Air Quality Decision Support System	USA	Health	Health
4	Cost-benefit analysis of climate change and urban growth impacts on the US-Mexico Border: The Santa Cruz Watershed Ecosystem Portfolio Model (SCWEPM)	Mexico/USA	Water	Agriculture, Health, Energy, Ecosystems, Climate
5	Application Of Rainfall Estimate Products To Cultivation Of Jatropha Curcas For Optimal Crop Yield And Bio-Diesel Production	Nigeria	Water	Water, Agriculture, Energy
6	Measurements and modelling water variables in the São Francisco river basin, Brazil	Brazil	Water	Water, Agriculture
7	Agricultural Planning for Geoenvironmental and Economic Sustainability Management with "Knowledge Architecture Systems"	Brazil	Water	Energy, Agriculture
8	The use of satellite images and agrometeorological data for water productivity assessment in São Francisco River basin, Brazil	Brazil	Water	Agriculture
9	Strengthening Land Use Information System for Decision Making in Support of Agriculture and Forestry Management in Uzbekistan	Uzbekistan	Water	Agriculture
10	Development of the Geoinformation System for Hydrological Drought Early Warning during Vegetation Period on the Base of Remote Sensing Data	Uzbekistan	Water	Agriculture
11	Earth Observations for Sustainable Water Resources Management in the Upper Ewaso Ng'iro North Basin, Kenya.	Kenya	Water	Agriculture
12	Wetland Losses and Degradation in Lesotho: Impacts of Climate Change & Anthropogenic Pressure	Lesotho	Water	Agriculture, Ecosystems
13	Geospatial Capacity Building For Managing Natural Resources In The Cagayan River Valley, Philippines	Pilippines	Water	Health
15	A Regional Coordinated Scheme for using Earth Observation for Monitoring and Assessment of the Cryosphere in the Hindu Kush-Himalayan Region	Himalayas	Water	Agriculture, Ecosystems
16	Capacity Building for Harmonized and Standardized Land Cover Mapping and Monitoring in the Hindu Kush - Himalayan Region	Himalayas	Water	Agriculture
19	An Intelligent System for Forecasting of Precipitation Using Geo-observation data	Global	Water	Water

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22	RS for Support of IWRM in Zambia River and wetland ecosystems	Zambia	Water	Water
25	Mapping Riparian and Aquatic Habitat Impacted by Coalbed Methane Development Using a Multiresolution Remote Sensing Approach, Powder River Basin, Wyoming	USA	Water	Ecosystems
30	Earth Observation System for Sustainable Watershed Management of Kenyir Lake, Malaysia	Malaysia	Water	Agriculture, Ecosystems
32	Water Productivity Mapping using Remote Sensing in cotton crop areas of Pakistan	Pakistan	Water	Agriculture
34	Earth Observation Techniques for Risk Assessment of the Southeastern Anatolia Project (Eorasap) Turkey	Turkey	Water	Agriculture, Energy
36	Interrelationship between Environmental and Socio-Economic Transformation Processes in Xuan Thuy National Park, Vietnam	Vietnam	Water	Water
44	Data Rescue and Digitization	Global	Water	Water
46	Drought Mitigation and Preparedness Plan of Rodh Malazai, Pishin, Balochistan	Pakistan	Water	Water
47	Evapotranspiration Estimation and Drought Prediction in the Southern India: Ensuring Food Security Using Earth Observation Techniques	India	Water	Agriculture
48	Evaluation and Management of the Present and Potential Water Resources in Eastern Mau-Kenya	Kenya	Water	Agriculture
49	Protect Planet Ocean - Ensuring Global Ocean Protection Using New Technology	North and South Pacific (Specifically Micronesia and Melanesia), East Asian Seas	Water	Water
50	Fostering the effective management of Guyana's coastal biodiversity to minimize and prevent the destruction of coastal habitats and to protect Guyana's coastal biological diversity.	Guyana's	Water	Water, Ecosystems (Coastal zone)
53	Drought management information in Iraq for wheat production and inability to complete ground truth due to political instability and cost for the crop identification.	Iraq	Water	Agriculture
54	Improving Coral Reef Ecosystem Management by Integrating Observations of the Bycatch, Seawater Condition and Fishermen Health in the Western Caribbean: A Multispecies and Multigears Operation	Southwestern Caribbean	Water	Water
56	The Use of Satellite Imagery to Monitor Climate Change and Anthropogenic Influences on the Hydrology of the Waza Logone Flood Plain of Far North Cameroon.	Cameroon	Water	Water
57	Decision Support Tools for Drought Management in Mediterranean areas using Earth Observation data	Mediterranean	Water	Agriculture
58	A Scenario-based Decision Support System for Sustainable Groundwater use in southern India	India	Water	Water
61	Determining vulnerability to drought and land degradation using remote sensing for the establishment of water shortage and desertification observatory for Colombia	Colombia	Water	Agriculture
64	A Monsoon Asia Drought and Agricultural Water Decision Support Prototype	South Asian Pakistan-India-Bangladesh	Water	Agriculture
66	Monitoring coastal land use conversion through earth observation in Quintana Roo, Mexico: A strategic tool for combine tourism development with nature.	Mexico	Water	Water (Coastal Zones)
67	Geospatial decision support to policy and management of floodplains and river deltas	global	Water	Water, Ecosystems
68	An Observing System Simulation Experiment Based on GTN-H Data Products	Global	Water	Water
69	Satellite oceanography for marine resource management in the Colombian Pacific - the way forward through research and capacity building	Colombia	Water	Water
70	Monitoring Flood Water Inundation and Sea Level Rise in Vietnam	Vietnam	Water	Water
71	Strengthening donor capacity to identify the water limits to agricultural development and poverty alleviation in a changing climate	Global	Water	Agriculture
72	Earth Observation to Support Land Subsidence and Groundwater Monitoring in Vulnerable Indonesian Cities	Indonesia	Water	Water

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73	Management of Invasive Alien Plants for Preserving Water Resources and Biodiversity in Argentinean Pampas.	Argentina	Water	Agriculture, Biodiversity
76	A Decision Support System for Rainfall Estimation for Iran	Iran	Water	Water
77	Integrated Decision Support System for Mobile Extension Services to Communities in the Northern Ghana	Ghana	Water	Water
80	Access and Information Services for African Users	Africa	Water	Agriculture, Energy, Health
82	Water Security and Governance - A crisis of urban life in Ghana	Ghana	Water	Water
83	Groundwater.net for Africa - A regional Groundwater Monitoring Network in Africa	Africa	Water	Water
84	Implementation & Evaluation of a Comprehensive Flood Forecasting System for Mesoamerica & the Caribbean at CATHALAC with extended Technology Transfer	MesoAmerica	Water	Water
90	Integration of Geophysical and Remotely Sensed Data in Regional Groundwater Evaluation in the Basement Complex of Ondo State, Southwestern Nigeria	Nigeria	Water	Water
93	Environmental Change and Human Health: Evaluation and Integration of Water, Land and Health Data Bases	Global	Water	Health
94	Optimized Water Management in agricultural areas with competing high value water uses through the use of Earth Observations	Canada/Global	Water	Agriculture
95	A remote sensing based platform for snow property estimation and water forecasts in northern Chile	Chile	Water	Water
109	Real Time Floods Satellite Observation and Response information system over the Ecuadorian coast	Ecuador	Water	Water
110	The assessment and allocation decision model of limited water resource by open standards-based techniques	Global	Water	Water
111	Hydrologic Data Infrastructure and Capacity Building for Assessing and Predicting Climate Change Effects on Water Resources in South East Asia	Global	Water	Water
114	Using Earth Observations Systems and Models to Increase Resilience of African Development to Climate Extremes and other High-Impact Weather Events.	Africa	Water	Climate, Weather, Disasters
115	State of the Global Water System	Global	Water	Water
116	Using Earth Observations to Investigate Impacts of Land Use on Hydrological Regime of Mtera – Kidatu Sub-Catchment.	Tanzania	Water	Water
117	Applications of Earth Observation Techniques -Global Navigation Satellite System (GNSS) and Interferometric Synthetic Aperture Radar (InSAR) - for Groundwater Water Resource and Drought Management	South Africa	Water	Water
119	Degradation of the capacity to provide ecosystem services related to the aquifer and the natural water availability in the Mexico Valley Metropolitan Area (MAMV)	Mexico	Water	Water
120	Regional Observatory for the Coastal Zone of the Southwestern Atlantic	Uruguay	Water	Water
121	Building Our Capacity to Observe Our Land and Water - A community-driven approach to model and manage water resources in Kenya	Kenya	Water	Water
122	Using EO to Enhance Groundwater Sustainability in Tanzania	Tanzania	Water	Water
123	Data Integration and Analysis System for Water (DIAS-Water)	Global	Water	Water
125	Asian Water Cycle Initiative (AWCI)	Asia	Water	Water
126	MAHASRI (Monsoon Asian Hydro-Atmosphere Scientific Research and Prediction Initiative)	Asia	Water	Water
130	ChloroGIN-SAFARI project - applications of Earth Observation data to support decision making for sustainable, and ecosystem-based, management of fisheries resources	Global	Water	Ecosystems (Coastal Zones)